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Patent  
Docket No: 57421US002

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:  
Mark T. Anderson *et al.*

Group Art Unit: Unknown

Serial No.: 10/037,731

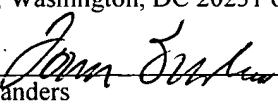
Filed: December 31, 2001 . Examiner: Unknown

For: A METHOD FOR MANUFACTURING SILICATE  
WAVEGUIDE COMPOSITIONS FOR EXTENDED  
L-BAND AND S-BAND AMPLIFICATION

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on:

April 4, 2002  
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Tom Sanders

**PRELIMINARY AMENDMENT**

Commissioner for Patents  
Washington, DC 20231

Dear Sir:

Please enter the following preliminary amendment in the above-referenced application.

**In the Specification:**

On page 7, please replace the following paragraph 4, starting on line 16 and ending on line 23:

In exemplary compositions the molar concentrations are: Er from 15 ppm to 3000 ppm, Al from 0.5 mol% to 12 mol%, La less than or equal to 2 mol%, Tm from 15 ppm to 10,000 ppm; and the Ge less than or equal to 15 mol%. The core may further include F. An exemplary concentration of F is less than or equal to 6 anion mol%. In particular embodiments, the concentration of Er is from 150 ppm to 1500 ppm, the concentration of Al is from 4 mol% to 10 mol%, the concentration of Tm is from 150 ppm to 3000 ppm, and/or the concentration of Ge is from 1 mol% to 15 mol%. Note that "mol%" is defined as cation mol%, that is, for a given composition, the moles of a specified cation divided by the total moles of all of the cations in